Insulin Types & Available Medicinal Forms in the UK

Insulin action	Insulin brand name & manufacturer	Delivery device	*compatible re-usable cartridge pen device
Ultra-Rapid	**Fiasp** (aspart) Manufacturer: Novo Nordisk	3ml Penfill cartridge* 10ml vial	NovoPen 6 NovoPen Echo Plus
	Lyumjev 100 units/ml (lispro) Manufacturer: Eli Lilly	KwikPen Junior KwikPen 3ml cartridge* 10ml vial	HumaPen Savvio
	Lyumjev 200 units/ml (lispro) Manufacturer: Eli Lilly	KwikPen	N/A
Rapid	**Admelog** (lispro) Manufacturer: Sanofi	SoloStar Pen 3ml cartridge* 10ml vial	All Star PRO Junior STAR
	Apidra (glulisine) Manufacturer: Sanofi	SoloStar Pen 3ml cartridge* 10ml vial	All Star PRO Junior STAR
	Humalog 100units/ml (lispro) Manufacturer: Eli Lilly	KwikPen Junior KwikPen 3ml cartridge* 10ml vial	HumaPen Savvio
	Humalog 200 units/ml (lispro) Manufacturer: Eli Lilly	KwikPen	N/A
	NovoRapid (aspart) Manufacturer: Novo Nordisk	FlexPen 3ml Penfill cartridge* 10ml vial 1.6ml PumpCart	NovoPen 6 NovoPen Echo Plus
	Trurapi (aspart) Manufacturer: Sanofi	SoloStar Pen 3ml cartridge* 10ml vial	All Star PRO Junior STAR
Short	**Actrapid** (insulin soluble human) Manufacturer: Novo Nordisk	10ml vial	N/A
	Humulin S (soluble human) Manufacturer: Eli Lilly	3ml cartridge*	HumaPen Savvio
	Hypurin Porcine Neutral (soluble porcine) Manufacturer: Wockhardt	3ml cartridge*	MyPen2

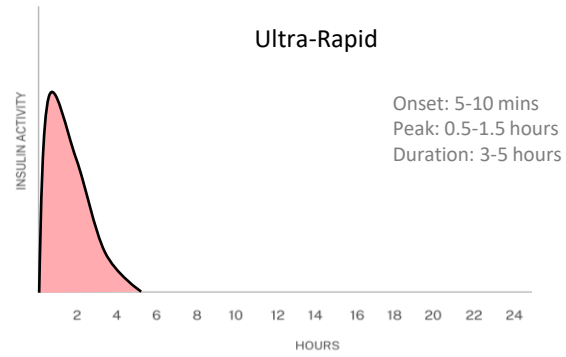
Insulin Action	Insulin brand name & manufacturer	Delivery device	*compatible re-usable cartridge pen device
Intermediate	**Humulin I** (isophane human) Manufacturer: Eli Lilly	KwikPen 3ml cartridge*	HumaPen Savvio
	Insulatard (isophane human) Manufacturer: Novo Nordisk	10ml vial	
	Hypurin Porcine Isophane (isophane porcine) Manufacturer: Wockhardt	3ml cartridges I	MyPen2
Basal	**Abasaglar** (glargine) Manufacturer: Eli Lilly	KwikPen 3ml cartridge*	HumaPen Savvio
	Lantus (glargine) Manufacturer: Sanofi	SoloStar pen 3ml cartridge* 10ml vial	All Star PRO Junior STAR
	Levemir discontinued no new starts (detemir) Manufacturer: Novo Nordisk	FlexPen 3ml Penfill cartridge*	NovoPen 6 NovoPen Echo Plus
	Toujeo 300 units/ml (insulin glargine 300units/ml) Manufacturer: Sanofi	SoloStar DoubleStar	N/A
	Tresiba 100 units/ml (degludec) Manufacturer: Novo Nordisk	3ml Penfill cartridge*	NovoPen 6 NovoPen Echo Plus
	Tresiba 200 units/ml (degludec 200 units/ml) Manufacturer: Novo Nordisk	FlexTouch Pen	N/A
	Semglee (glargine) Manufacturer: Viatris	Pre-filed pen	N/A
Pre-mixed Analogues	**NovoMix 30** (aspart protamine) Manufacturer: Novo Nordisk	FlexPen 3ml cartridge*	NovoPen 6 NovoPen Echo Plus
	Humalog Mix 25 (lispro protamine) Manufacturer: Eli Lilly	KwikPen 3ml cartridge*	HumaPen Savvio
	Humalog Mix 50 (lispro protamine) Manufacturer: Eli Lilly	KwikPen 3ml cartridge*	HumaPen Savvio
Pre-mixed Human	**Humulin M3** (soluble/isophane human) Manufacturer: Eli Lilly	KwikPen 3ml cartridge*	HumaPen Savvio
	Hypurin Porcine 30/70 Mix (soluble/isophane porcine Manufactoruer: Wockhardt)	3ml cartridge*	MyPen2

* Re-usable cartridge pens can only be used with company specific insulin 3ml cartridges

Insulin Time Action Profiles

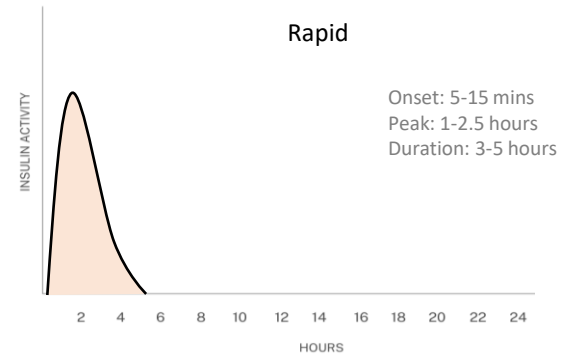
Diabetes Specialist Nurse Forum UK

Ultra-Rapid



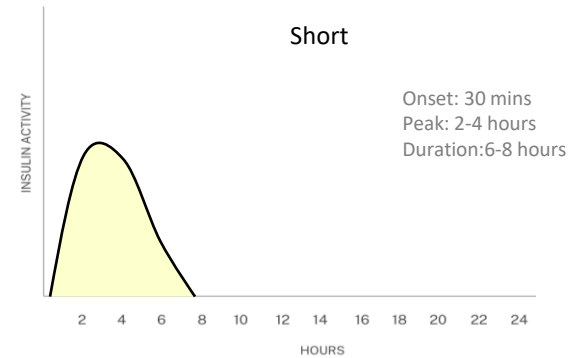
Onset: 5-10 mins
Peak: 0.5-1.5 hours
Duration: 3-5 hours

Rapid



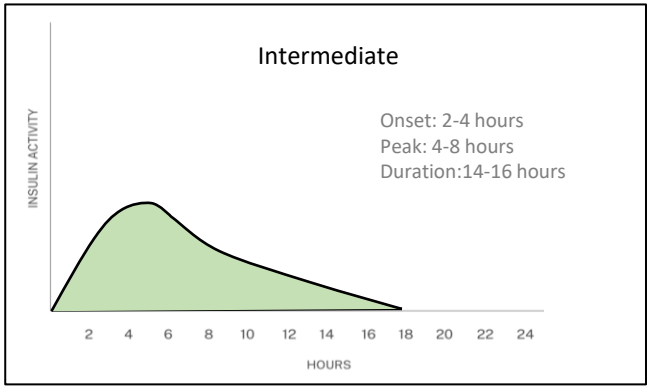
Onset: 5-15 mins
Peak: 1-2.5 hours
Duration: 3-5 hours

Short



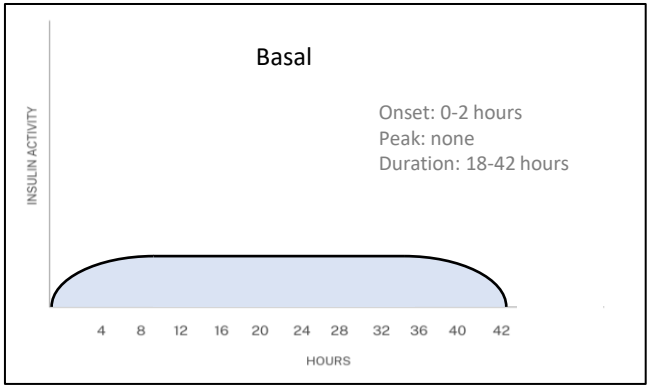
Onset: 30 mins
Peak: 2-4 hours
Duration:6-8 hours

Intermediate



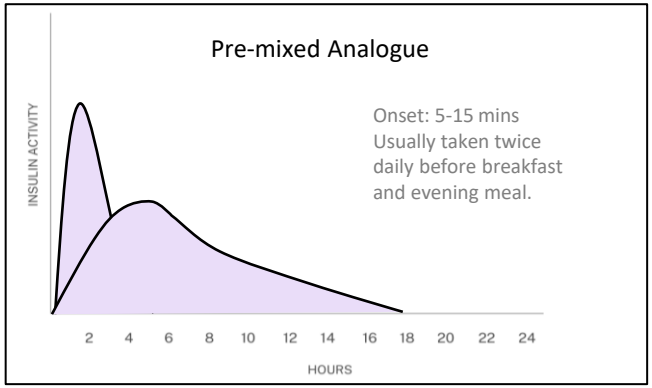
Onset: 2-4 hours
Peak: 4-8 hours
Duration:14-16 hours

Basal



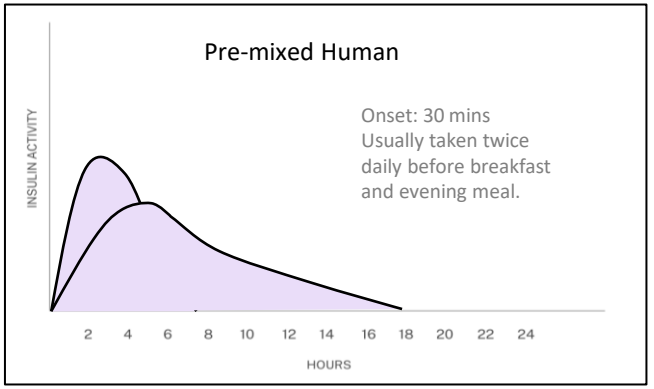
Onset: 0-2 hours
Peak: none
Duration: 18-42 hours

Pre-mixed Analogue



Onset: 5-15 mins
Usually taken twice daily before breakfast and evening meal.

Pre-mixed Human



Onset: 30 mins
Usually taken twice daily before breakfast and evening meal.

Prefilled Disposable Pen Devices

Manufacturer	Insulin	Device name	Min-max dose	Dose increments	Device capacity	Material	Recycle scheme
Novorapid	Levemir **(Discontinued)**	FlexPen	1-60 units	1 unit	300 units	Plastic Recyclable via pencycle scheme	
	NovoMix 30	FlexPen	1-60 units				
	NovoRapid	FlexPen	1-60 units				
	Tresiba 200 units/ml	FlexTouch	2-160 units	2 units	600 units		
Sanofi	Admelog**	SoloStar	1-80 units	1 unit	300 units	Plastic	RePen
	Apidra						
	Lantus						
	Trurapi**						
	Toujeo 300 units/ml	SoloStar	1-80 units	1 unit	450 units		
		DoubleStar	2-160 units	2 units	900 units		
Eli Lilly	Abasaglar**	KwikPen	1-80units	1 unit	300 units	Plastic	No
	Humalog 100 units/ml	KwikPen	1-60 units	1 unit	300 units		
		Junior KwikPen	0.5-30 units	0.5 units	300 units		
	Humalog 200 units/ml	KwikPen	1-60 units	1 unit	600 units		
	Humalog Mix25	KwikPen	1-60 units	1 unit	300 units		
	Humalog Mix50						
	Humulin I						
	Humulin M3						
	Lyumjev 100 units/ml	KwikPen	1-60 units	1 unit	300 units		
		Junior KwikPen	0.5-30 units	0.5 units			
	Lyumjev 200 units/ml	KwikPen	1-60 units	1 unit	600 units		
Mylan	Semglee**	Pre-filled pen	1-80 units	1 unit	300 units	Plastic	No

** Biosimilar insulins

Information about the PenCycle scheme can be found at https://www.pen-cycle.co.uk

Information about the UK based pilot RePen scheme can be found at www.mysanofiinsulin.co.uk/repen

Re-usable Cartridge Pen Devices

Manufacturer	Compatible Insulins (3ml cartridges)	Pen device	Min-Max dosage	Dose increments	Capacity	Colour	Material
NovoNordisk	Fiasp Insulatard Levemir NovoMix 30 NovoRapid Tresiba 100 units/ml	NovoPen 6 Smart pen	1-60 units	1 unit	300 units	Blue Silver	Metal & plastic
		Novopen Echo Plus Smart Pen	0.5-30 units	0.5 units	300 units	Teal Red	
Sanofi	Admelog** Apidra Lantus Trurapi**	AllStar PRO	1-80 units	1 unit	300 units	Blue Silver	Plastic
		Junior STAR	0.5-30 units	0.5 units	300 units	Red Blue Silver	
Eli Lilly	Abasaglar** Humalog 100 units/ml Humalog Mix 25 Humalog Mix 50 Humulin I Humulin M3 Humulin S Lyumjev 100 units/ml	HumaPen Savvio	1-60 units	1 unit	300 units	Blue Graphite Red	Metal
Wockhardt	Porcine Neutral Porcine Isophane Porcine 30/70 Mix	MyPen2	1-60 units	1 unit	300 units	Silver/black	Plastic

** Biosimilar insulins

All re-usable cartridge pens can be prescribed via FP10, a spare pen device should always be available in case of loss or breakage.